

AMENDMENTS TO THE SPECIFICATION

Please amend each of paragraphs [0012], [0015], [0032], and [0038] of the specification as shown by its respective like-numbered amended version below:

[0012] In one embodiment, a system for displaying graphical representations of time varying information for Semantic Web structured statements includes a processor connected to Semantic Web structured resources and receiving input from a user, including a query to retrieve selected statements matching the query. Application program interfaces (APIs) determine the selected statements from the resource and obtain the start and stop properties for subjects and objects of the matching statements and for the statements themselves. The APIs also determine graphical representation data from the selected statements and their properties. The processor receives the graphical representation data and ~~control~~ controls a display to present the graphical representations of the selected statements. The processor controls the display to hide graphical representations of those statements whose lifetime does not include a timeframe input by the user. The system ~~include~~ includes an application tool set operable by the user to input the timeframe, wherein the user can select timeframe increments corresponding to the start and stop properties of the selected statements.

[0015] The instructions include instructions for ~~controlling~~ controlling a processor to display a plurality of statements on a display by displaying subjects and objects of the statements as nodes, displaying predicates of the statements as arcs connecting the nodes, and hiding nodes and arcs for particular statements when a selected display timeframe is outside the lifetimes of those particular statements. The instructions include instructions for controlling a processor to hide the nodes and arcs by painting the nodes and arcs for those particular statements to match a background of the display.

[0032] Fig. 5A illustrates an example of statement 502 (a reified ~~version~~ version of statement is shown in Fig. 5C) having start property 504 and stop property 506 directly associated with statement 502. Fig. 5B illustrates the example of Fig. 5A, wherein statement 502 has multiple

instances 508, 510 of the class Interval 512. Instance 508, with respective start and stop properties 504 and 506, corresponds with the interval for statement 502 of Fig. 5A, while instance 510 shows the addition to statement 502 of a second interval with start property 514. For the marriage relation example discussed above, the first interval 508 of the marriage can indicate the marriage (statement 502) began in 1960 (start property 504) and ended in 1970 (stop property 506). The second interval 510 can indicate that the same marriage, i.e., marriage between the same two people, began again in 1980 (start property 514). Intervals can be associated with instances as well as with statements.

[0038] In one embodiment consistent with the invention, start and ~~start~~ stop properties can be associated with the statements and resources. Continuing with the example of statement 1 of Table 2, in this embodiment statement 1 can have a start property of 05/29/57, corresponding to the date Mike Thornton was born, and a stop property of 06/14/92. Without further information, the stop property can refer to a number of events by which the father relationship of Mike and Joe Thornton can end, including Mike's or Joe's death. In this embodiment, start and stop properties associated with subjects and objects can be used to obtain start and stop properties for the related statements as listed in Table 2. For example, the statements "Joe Thornton has a birth event of 03/16/28" "Joe Thornton has a death event of 06/14/92" can be used to determine the start and stop properties for Joe Thornton. The absence of a statement for a death event for Mike Thornton can indicate Mike Thornton has an open stop property. The above can illustrate that the lifetime of a statement can be further restrained by the lifetimes of its subject and object.